

Atty Dkt. No.: SKEL-012  
USSN: 10/661,356

AMENDMENTS

Please incorporate the following amendments to the subject application.

In the Claims:

1. (Currently Amended) A method of introducing a flowable orthopedic calcium phosphate cement composition to a cancellous bone target bone site, said method comprising:  
delivering said flowable orthopedic cement composition to said target bone site in conjunction with vibration in a manner such that said vibration provides for controlled penetration of said flowable cement composition into said cancellous bone without use of substantial pressure and penetration of said cement into said cancellous bone stops substantially simultaneously with cessation of said vibration.
2. (Original) The method according to Claim 1, wherein said target bone site is part of a reduced fracture.
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Currently Amended) The method according to Claim 1 [[3]], wherein said method further comprises aspirating marrow from said cancellous bone.
7. (Currently Amended) The method according to Claim 1 [[3]], wherein said target bone site comprises cancellous bone of a vertebral body.
8. (Original) The method according to Claim 1, wherein said vibration is provided by applying vibratory force to a flowable composition introduction element

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of a delivery device for said cement.

9. (Original) The method according to Claim 8, wherein said flowable composition introduction element is a needle.

10. (Original) The method according to Claim 9, wherein said delivery device comprises a vibratory element for vibrating said needle.

11. (Currently Amended) A method of introducing a flowable orthopedic cement composition into a vertebral body, said method comprising:

delivering said flowable calcium phosphate cement composition to said target bone site in conjunction with vibration in a manner such that said vibration provides for controlled penetration of said flowable cement composition into cancellous bone of said vertebral body without use of substantial pressure and penetration of said cement into said cancellous bone stops substantially simultaneously with cessation of said vibration.

Claims 12-17 (Cancelled)

18. (Currently Amended) A system for delivering an orthopedic cement to a target bone site, said system comprising:

- (a) a delivery device for said cement comprising a flowable composition introduction element; and
- (b) a pneumatic vibratory element for vibrating said flowable composition introduction element.

19. (Original) The system according to Claim 18, wherein said flowable composition introduction element is a needle

20. (Original) The system according to Claim 18, wherein said vibratory element is separate from said delivery device.

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21. (Original) The system according to Claim 18, wherein said vibratory element is a component of said delivery device.
22. (Original) The system according to Claim 18, wherein said system further comprises a calcium phosphate cement composition.
23. (Currently Amended) A device for delivering an orthopedic cement to a target bone site, said device comprising:
  - (a) a flowable composition introduction element; and
  - (b) a pneumatic vibratory element for vibrating said flowable composition introduction element.

Claims 24-25(Cancelled)

26. (Currently Amended) A kit for delivering an orthopedic cement to a target bone site, said kit comprising:
  - (a) a delivery device for said cement comprising a flowable composition introduction element; and
  - (b) a pneumatic vibratory element for vibrating said flowable composition introduction element.

Claims 27-30(Cancelled)

Please add the following new claims:

31. (New) The method according to Claim 11, wherein said method further comprises removing marrow from said vertebral body.
32. (New) The method according to Claim 11, wherein said vibration is provided by applying vibratory force to a flowable composition introduction element of a delivery device for said cement.

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33. (New) The method according to Claim 32, wherein said flowable composition introduction element is a needle.

34. (New) The method according to Claim 32, wherein said delivery device comprises a vibratory element for vibrating said needle.

35. (New) The method according to Claim 34, wherein said vibratory element is a pneumatic vibratory element.

36. (New) A method of introducing a flowable orthopedic calcium phosphate cement composition to a cancellous bone target bone site, said method comprising:  
delivering said flowable orthopedic cement composition to said target bone site in conjunction with vibration in a manner such that said vibration provides for controlled penetration of said flowable cement composition into said cancellous bone without use of substantial pressure to produce a cancellous bone/cement composite structure.

37. (New) The method according to Claim 36, wherein said target bone site is part of a reduced fracture.

38. (New) The method according to Claim 36, wherein said target bone site comprises cancellous bone of a vertebral body.

39. (New) The method according to Claim 38, wherein said method results in about 4 to 10 cubic centimeters of said cement being injected into each side of said vertebral body.

40. (New) The method according to Claim 36, wherein said vibration is provided by applying vibratory force to a flowable composition introduction element of a delivery device for said cement.

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41. (New) The method according to Claim 40, wherein said flowable composition introduction element is a needle.
42. (New) The method according to Claim 41, wherein said delivery device comprises a vibratory element for vibrating said needle.
43. (New) The method according to Claim 36, wherein said method provides for greater amounts of cement to be delivered to said target site with less pressure as compared to a control method in which vibration is not employed.